

# MLG12-200 (12V200 AH)

## Features

Maintenance-free operation  
Compact design  
Gelled Electrolyte Technology

Stable quality and high reliability  
12 years design life (at 25°C)



## Application

- Solar and Wind
- Telecommunication system
- Backup power for testing and measuring instruments
- UPS
- Emergency lighting
- Fire alarm and security systems
- Auto control system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Alarm and security system

## Specifications

Nominal Voltage	12V (6 cells)	Operating Temp.Range	Discharge: -15 - 50°C (5 - 122°F)
Nominal Capacity	212AH (20hr, 1.80V/cell, 25 °C/76°F)		Charge : 0 - 40°C (32 - 104°F)
	200AH (10hr, 1.80V/cell, 25 °C/77°F)	Nominal Operating Temp.Range	Storage : -15 - 40°C (5 - 104°F)
Dimension	170AH (5hr, 1.75V/cell, 25 °C/77°F)	Cycle Use	25 ± 0.5 °C (77 ± 5°F)
	120AH (1hr, 1.60V/cell, 25°C/77°F)		14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C
	Length 522 ± 2mm	Standby Use	Initial Charging Current Less than 60A
	Width 240 ± 2mm		13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C
Container Height 218 ± 2mm	No limit on Initial Charging Current		
Approx Weight	Total Height(with Terminal) 224 ± 2mm	Capacity affected by Temperature	40°C (104°F) 103%
Terminal	Approx 62.0Kg		25°C (77°F) 100%
Container Material	T5 or F7		0°C (32°F) 86%
Max. Discharge Current	Approx 3.0mΩ	Self Discharge	Sunstone MLG series batteries may be stored for up to 9 months at 25°C (77°F) and then a freshening charge is required.
Internal Resistance	2000A (5S)		For higher temperatures the time interval will be shorter.

### Constant Current Discharge (Amperes at 25°C/77°F)

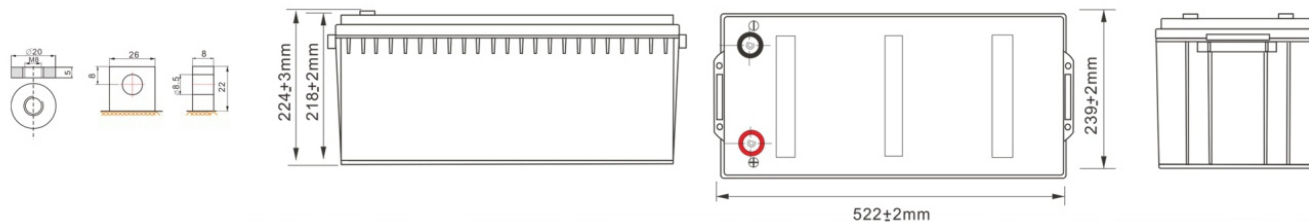
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	\	349.2	284.8	177.5	137.3	112.9	66.6	50.0	34.4	20.8	10.95
1.75V/cell	\	383.6	308.9	184.9	142.5	116.5	68.5	51.3	35.2	21.2	11.11
1.70V/cell	\	409.7	333.6	191.2	147.1	119.8	70.4	52.4	35.8	21.5	11.22
1.65V/cell	\	436.9	352.6	201.7	153.2	124.6	72.4	53.9	36.6	21.7	11.38
1.60V/cell	\	466.9	368.7	210.7	158.8	128.7	74.4	54.8	37.3	21.9	11.49

### Constant Power Discharge (Watts per cell at 25°C/77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	\	639.9	540.4	333.6	260.8	219.9	128.3	97.0	68.0	41.3	21.58
1.75V/cell	\	685.8	567.5	347.2	271.6	224.8	131.7	99.1	69.0	41.9	21.90
1.70V/cell	\	721.8	597.0	359.0	280.4	228.0	134.9	101.0	69.8	42.2	22.12
1.65V/cell	\	755.4	619.0	378.5	288.5	235.5	137.7	102.9	71.3	42.5	22.33
1.60V/cell	\	786.2	654.7	390.2	296.1	242.8	104.8	104.8	72.3	42.8	22.55

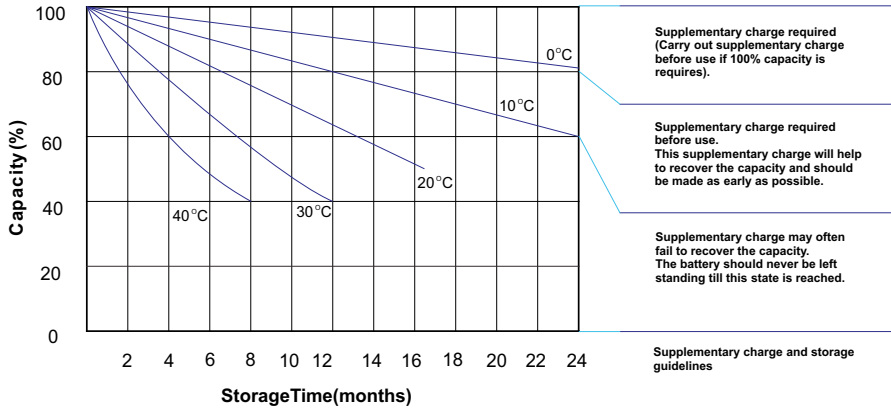
Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

## Dimensions unitmm[inches]

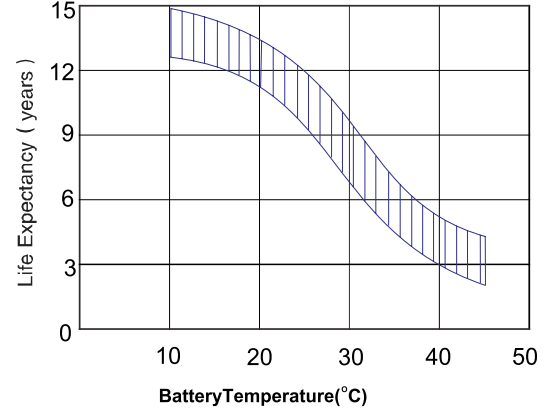


# MLG12-200 (12V200 AH)

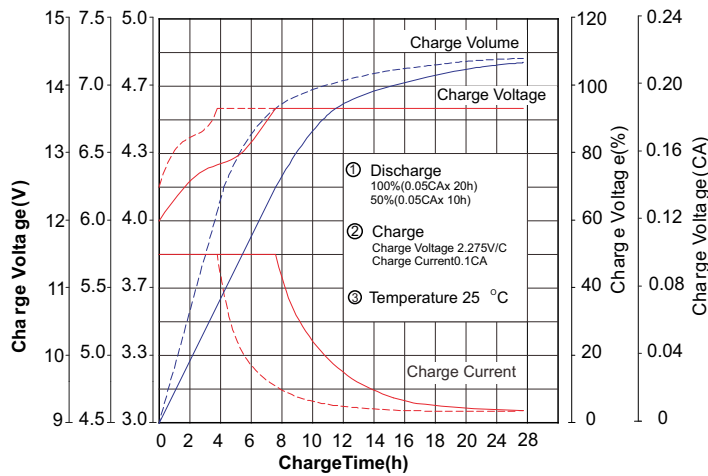
## Storage characteristics



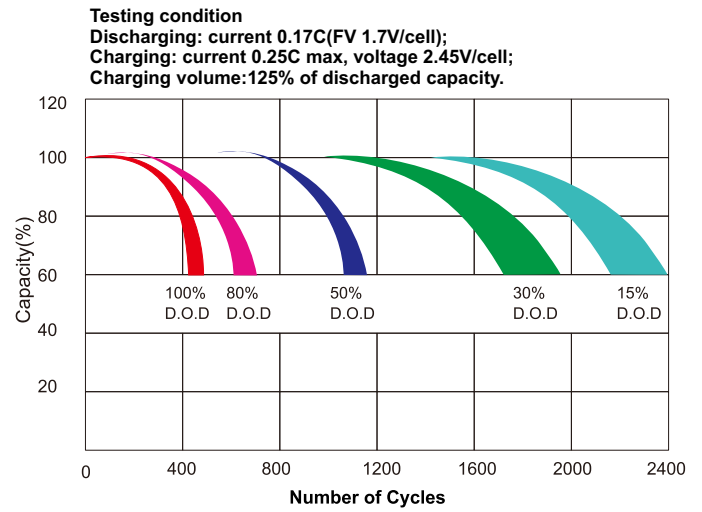
## Effect of temperature on long term float life



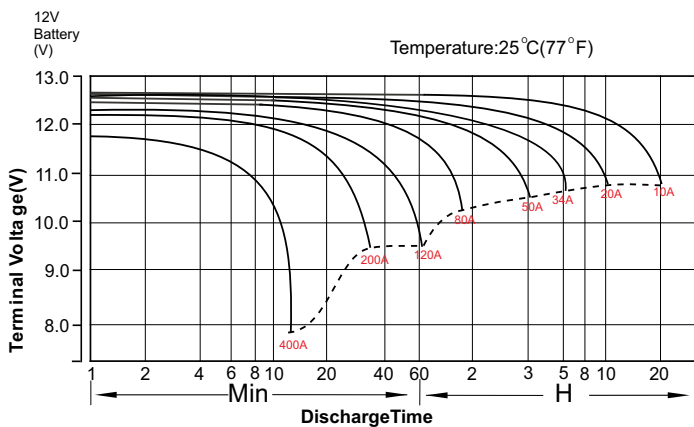
## Charge characteristic Curve for standby use



## Cycle Life in Relation to Depth of Discharge



## Discharge characteristic Curve



## Temperature Effects in Relation to Battery Capacity

